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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Susan Humail

October 22, 1997

## **MEMORANDUM**

SUBJECT: Review of Acceptability of Mixer/Loader/Applicator Study Submitted to Support

the Reregistration of Carbofuran (MRID No. 428486-01); Dated March 2, 1993.

(Case No. 0101; Chem. No. 090601) DP Barcode D193597.

FROM: Jack Arthur, Environmental Health Scientist

Chemistry and Exposure Branch 2 Health Effects Division (7509C)

TO: Paul Lewis, Chemical Review Manager

Risk Characterization and Review Branch

THRU: Susan Hummel, Branch Senior Scientist

Chemistry and Exposure Branch 2 Health Effects Division (7509C)

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### I. EXECUTIVE SUMMARY

A. The studies submitted to fulfill the requirements of Subdivision U Guidelines §231 (dermal exposure at outdoor sites) and §232 (inhalation exposure at outdoor sites) are unacceptable.

B. The Agency has conducted a surrogate analysis for mixer/loader/applicator exposure and this analysis appears in the HED Chapter of the Carbofuran RED.

### II. INTRODUCTION:

SRRD forwarded the above referenced mixer/loader/applicator exposure study to review for Subdivision U Guideline acceptability, as required to support the reregistration of Carbofuran (this is assumed, although no review instructions appear on the bean sheet). Carbofuran is an insecticide and nematicide registered for a variety of food and non-food crops. Preparation of this submission was presumably in response to a 1991 listing of data call-in requirements for mixer/loader/applicator monitoring guideline studies, §231 (dermal exposure at outdoor sites) and §232 (inhalation exposure at outdoor sites)<sup>1</sup>.

### III. DETAILED CONSIDERATIONS:

This study relies on surrogate data from PHED Version 1.01 (May 13, 1992) to estimate mixer/loader/applicator exposure from the application of Furadan 4F by ground boom and aerial equipment. No guideline study was performed, nor were there any new raw field data generated.

### IV. CONCLUSIONS:

The submission made by the registrant is rejected for the purposes of fulfilling the data call-in requirements for Subdivision U Guideline studies §231 and §232. The study is rejected on a general basis that it does not fulfill the requirements envisioned by the data call-in for Subdivision U Guideline studies. Rather it is a surrogate analysis based on the outdated PHED V1.01. The submission has not been put through a detailed evaluation for its merit as a surrogate analyses (although, on this basis it would be rejected because of its use of an outdated version of PHED). The Agency has performed a surrogate analysis for mixers/loaders/applicators for the HED Chapter of the Carbofuran RED. The registrant has an opportunity to respond to the Agency's analysis in the reregistration process.

#### V. REFERENCES

1. EPA Memorandum from Jeff Evans (HED) to Esther Saito (HED):
Postapplication/Reentry and Mixer/Loader/Applicator Exposure Monitoring Data
Requirements for List A Chemicals for which Data Call-ins are to be Issued. Memo
dated, June 7, 1991.

cc: RDI:SVH:10/22/97 HED/CEB2/JA:811E:CM#2:305-4075 Jack Arthur, Chemical File